

**Commonwealth of Kentucky
Division for Air Quality**

PERMIT APPLICATION SUMMARY FORM

Completed by: Lisa Beckham

GENERAL INFORMATION:

Name:	Kentucky State Reformatory
Address:	3001 West Highway 146 LaGrange, KY 40032
Date application received:	5/15/2007
SIC Code/SIC description:	9223, Correctional Institutions
Source ID:	21-185-00012
Agency Interest:	8027
Activity:	APE20070004
Permit:	V-07-028

APPLICATION TYPE/PERMIT ACTIVITY:

<input type="checkbox"/> Initial issuance	<input type="checkbox"/> General permit
<input type="checkbox"/> Permit modification	<input type="checkbox"/> Conditional major
<input type="checkbox"/> Administrative	<input checked="" type="checkbox"/> Title V
<input type="checkbox"/> Minor	<input checked="" type="checkbox"/> Synthetic minor
<input type="checkbox"/> Significant	<input checked="" type="checkbox"/> Operating
<input checked="" type="checkbox"/> Permit renewal	<input type="checkbox"/> Construction/operating

COMPLIANCE SUMMARY:

<input type="checkbox"/> Source is out of compliance	<input type="checkbox"/> Compliance schedule included
<input type="checkbox"/> Compliance certification signed	

APPLICABLE REQUIREMENTS LIST:

<input type="checkbox"/> NSR	<input checked="" type="checkbox"/> NSPS	<input checked="" type="checkbox"/> SIP
<input type="checkbox"/> PSD	<input type="checkbox"/> NESHAPS	<input type="checkbox"/> Other
<input type="checkbox"/> Netted out of PSD/NSR	<input type="checkbox"/> Not major modification per 401 KAR 51:001, 1(116)(b)	

MISCELLANEOUS:

- ☐ Acid rain source
- ☐ Source subject to 112(r)
- ☒ Source applied for federally enforceable emissions cap
- ☐ Source provided terms for alternative operating scenarios
- ☐ Source subject to a MACT standard
- ☐ Source requested case-by-case 112(g) or (j) determination
- ☐ Application proposes new control technology
- ☒ Certified by responsible official
- ☒ Diagrams or drawings included
- ☐ Confidential business information (CBI) submitted in application
- ☐ Pollution Prevention Measures
- ☐ Area is non-attainment (list pollutants):

EMISSIONS SUMMARY:

Pollutant	Actual (tpy)	Potential (tpy)
PM/PM ₁₀	0.5/0.5	6.76/6.76
SO ₂	0.1	225*
NO _x	6.5	88.7
CO	5.2	72.5
VOC	0.39	5.1
Xylene	--	.0602
Triethylamine	--	.0101
Formaldehyde	--	.0018
Napthalene	--	.0251

*Based on source-wide emission limit

SOURCE DESCRIPTION:

On May 15, 2007 Kentucky State Reformatory (KSR) submitted an application for a renewal Title V/Synthetic Minor permit. KSR currently operates three (3) boilers with a total heat input capacity of 193 MMBtu/hr at their correctional facility in LaGrange, Kentucky. Additionally, the facility has two paint lines for painting license plates and metal cabinets/panels and an autobody paint training shop.

The application was submitted in response to a Notice of Violation issued to the facility on February 14, 2007. The violations addressed with the current application include: failure to submit an application for renewal 6-months prior to expiration (Permit V-02-002 expired April 15, 2007) and replacing the solvent based paint line with an electrostatic powder paint line (including drying and curing ovens) without prior approval from the Division. In addition to correcting the above violations KSR has also requested: the removal of Emission Units 01 and 02 from the permit since they were removed from the facility in 2002, addition of an existing insignificant burnoff oven that was not included with previous permit applications and addition of an insignificant autobody paint training shop with a maximum paint use of 60 gallons per year.

EMISSIONS AND OPERATING CAPS DESCRIPTIONS:

- a. To preclude applicability of 401 KAR 51:017, Prevention of Significant Deterioration of Air Quality, total source-wide consumption of No. 2 fuel oil shall not exceed 5,700,000 gallons per year on a twelve-month rolling total.
- b. To preclude applicability of 401 KAR 51:017, Prevention of Significant Deterioration of Air Quality, the sulfur content of No.2 fuel oil shall not exceed 0.5 percent by weight. Compliance can be assured through fuel supplier certification.

- c. To preclude applicability of 401 KAR 51:017, Prevention of Significant Deterioration of Air Quality, total source-wide emissions of sulfur dioxide shall not exceed 225 tons per year based on a twelve month rolling total.

OPERATIONAL FLEXIBILITY

NONE